

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/528,309A
Source: PT
Date Processed by STIC: 5/4/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/528,309A</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ___ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ___ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ___ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 ___ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 ___ Variable Length	Sequence(s) ___ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ___ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ___ Skipped Sequences (OLD RULES)	Sequence(s) ___ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ___ Skipped Sequences (NEW RULES)	Sequence(s) ___ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ___ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 ___ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 ___ Use of <220>	Sequence(s) <u>9</u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 ___ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ___ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



PCT

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/528,309A

TIME: 14:13:50

Input Set : A:\SEQLIST 21226Y 08-24-05.TXT

Output Set: N:\CRF4\05042006\J528309A.raw

4 <110> APPLICANT: Clark, Janet
 5 Rohrer, Susan
 6 Alves, Stephen E.
 8 <120> TITLE OF INVENTION: Tryptophan Hydroxylase Assay
 11 <130> FILE REFERENCE: 21226Y
 13 <140> CURRENT APPLICATION NUMBER: 10/528,309A
 14 <141> CURRENT FILING DATE: 2005-03-17
 16 <150> PRIOR APPLICATION NUMBER: 60/412,094
 17 <151> PRIOR FILING DATE: 2002-09-19
 19 <150> PRIOR APPLICATION NUMBER: US03/29320
 20 <151> PRIOR FILING DATE: 2003-09-15
 22 <160> NUMBER OF SEQ ID NOS: 9
 24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 265
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Mus Musculus
 31 <220> FEATURE:
 32 <221> NAME/KEY: misc_feature
 33 <222> LOCATION: (0)...(0)
 34 <223> OTHER INFORMATION: Isolate P815 Mouse Mastocytoma cell line, strain
 35 DBA, ATCC Deposit No. TIB-64
 37 <400> SEQUENCE: 1
 38 tacacatcga gtcccgga tcaaagcaaa gaaattcaga atttgagata tttgttgact 60
 39 gcgacatcag ccgagaacag ttgaatgaca tcttccccct gctgaagtcg cacgccaccg 120
 40 tcctctcggg ggactcgccc gatcagctca ctgcgaagga agacgttatg gagactgtcc 180
 41 cttggtttcc aaagaagatt tctgacctgg acttctgcgc caacagagtg ctgttgtatg 240
 42 gatccgaact tgacgcccac cacc 265
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 265
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Rattus Rattus
 49 <400> SEQUENCE: 2
 50 tacatatga gtcccgga tcaagcgaa gaaactcaga atttgagatt tttgtggact 60
 51 gcgacatcaa ccgagaacag ctgaatgaca tcttccccct gctaaagtcc cacaccacgg 120
 52 tcctctctgt ggactcgccc gatcagctcc ctgaaaagga agatgttatg gagactgtcc 180
 53 cttggtttcc aaagaagatt tctgacctgg acttctgcgc caacagagtg ctgttgtacg 240
 54 gatccgaact cgacgcccac cactg 265
 56 <210> SEQ ID NO: 3
 57 <211> LENGTH: 265
 58 <212> TYPE: DNA
 59 <213> ORGANISM: Homo Sapiens
 61 <400> SEQUENCE: 3

P.S.
**Does Not Comply
 Corrected Diskette Needed**

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/528,309A

TIME: 14:13:50

Input Set : A:\SEQLIST 21226Y 08-24-05.TXT

Output Set: N:\CRF4\05042006\J528309A.raw

```

62 tacatatcga gtccccgaaaa tcaaaaagaa gaaactcaga atttgagatt tttgttgact 60
63 gtgacatcaa cagagaacaa ttgaatgata tttttcatct gctgaagtct cataccaatg 120
64 ttctctctgt gaatctacca gataatttta ctttgaagga agatggtatg gaaactgttc 180
65 cttggtttcc aaagaagatt tctgacctgg accattgtgc caacagagtt ctgatgatg 240
66 gatctgaact agatgcagac cactg 265
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 1732
70 <212> TYPE: DNA
71 <213> ORGANISM: Mus Musculus
73 <220> FEATURE:
74 <221> NAME/KEY: misc_feature
75 <222> LOCATION: (0)...(0)
76 <223> OTHER INFORMATION: Isolate P815 Mouse Mastocytoma cell, strain DBA
77 ATCC deposit No. TIB-64
79 <400> SEQUENCE: 4
80 gagtgggtga gtgggatagc ccctccctgg gacatcggat cagaagactc ccagcaagga 60
81 cgggatcaac ttctagtagg aaccagattc accatgattg aagacaacaa ggagaacaaa 120
82 gagaacaaag accattcctc cgaaagaggg agagtgactc tcatcttctc cttggagaat 180
83 gaagtcggag gactcataaa agtgctgaaa atcttccagg agaatcatgt gagectgtta 240
84 cacatcgagt cccggaaatc aaagcaaaga aattcagaat ttgagatatt tgttgactgc 300
85 gacatcagcc gagaacagtt gaatgacatc ttccccctgc tgaagtcgca cgccaccgtc 360
86 ctctcggtgg actcgccga tcagctcact gcgaaggaag acgttatgga gactgtccct 420
87 tggtttccaa agaagatttc tgacctggac ttctgcgcca acagagtgtc gttgtatgga 480
88 tccgaacttg acgccacca ccctggcttc aaagacaatg tctatcgtag aagacgaaag 540
89 tattttgcag agttggctat gaactacaaa catggggacc ccattcccaa gattgaattc 600
90 acggaagaag agattaagac ctgggggacc atcttccgag agctaaacaa actctaccgc 660
91 acccacgcct gcaggagta cctcagaaac ctccctttgc tctcaaaata ctgtggctat 720
92 cgggaagaca acatcccga actggaggat gtctccaact ttttaaaaga acgcaactgg 780
93 ttttccatcc gtctgtggc tggttacctc tcaccgagag attttctgtc ggggttagcc 840
94 tttcgagtct ttactgcac tcagtatgtg agacacagtt cagatccctc ctacactcca 900
95 gagccagaca cctgccatga actcctaggc cacgttcttc tcttggctga acccagtttt 960
96 gctcaattct cccaagaaat tggcctggct tccttggag cttcagagga gacagttcaa 1020
97 aaactggcaa cgtgctaact ttactgtg gagtttgggc tgtgcaaaca agatggacag 1080
98 ctgagagtct ttggggccgg cttgctttct tccatcagt aactcaaaca tgcactttct 1140
99 ggacatgcca aagtcaagcc ctttgatccc aagattgcct gtaaacagga atgtctcatc 1200
100 acgagcttcc aggatgtcta ctttgtatct gagagctttg aagatgcaaa ggagaagatg 1260
101 agagaatttg ccaagaccgt gaagcgcccg tttggactga agtacaaccc gtacacacag 1320
102 agtggttcagg ttctcagaga caccaagagc ataactagt ccatgaatga gttgcggtat 1380
103 gaccttgatg tcatcagtga tgccctcgct agggtcacca ggtggcccag tgtgtgatgg 1440
104 tttccagtgc atatcaaaa agcctttgag catcagtcta gagccagggc tagttcttgc 1500
105 ttccccgtga gacctgctt gggagggaca gcagctccca gcttagcaat gtctctcgcc 1560
106 tctctccata ttcaatcact cactctctct gaaaatgcac acctggaact gcttatcttc 1620
107 tactttctgt ttgtcttctg gaacctgctg agggaaatat agttcacgtg ccacgtgatg 1680
108 ccagagacac acatttaaaa tattttatct cattaaaatg taattgaatc at 1732
110 <210> SEQ ID NO: 5
111 <211> LENGTH: 1344
112 <212> TYPE: DNA
113 <213> ORGANISM: Mus Musculus
115 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/528,309A

TIME: 14:13:50

Input Set : A:\SEQLIST 21226Y 08-24-05.TXT

Output Set: N:\CRF4\05042006\J528309A.raw

```

116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (0)...(0)
118 <223> OTHER INFORMATION: Isolate P815 Mouse Mastocytoma, cell line, Strain
119     DBA, ATCC, Deposit No. TIB-64
121 <400> SEQUENCE: 5
122 atgattgaag acaacaagga gaacaaagag aacaaagacc attcctccga aagagggaga 60
123 gtgactctca tcttctcctt ggagaatgaa gtcggaggac tcataaaaagt gctgaaaatc 120
124 ttccaggaga atcatgtgag cctgttacac atcgagtccc ggaaatcaaa gcaaagaaat 180
125 tcagaatttg agatatttgg tgactgagac atcagccgag aacagttgaa tgacatcttc 240
126 cccctgctga agtcgcacgc caccgtcctc tcgggtggact cgcccgatca gctcactgag 300
127 aaggaagacg ttatggagac tgtcccttgg ttcccaaaga agatttctga cctggacttc 360
128 tgcgcccaaca gagggtggtt gtatggatcc gaacttgacg ccgaccaccc tggcttcaaa 420
129 gacaatgtct atcgtagaag acgaaagtat tttgcagagt tggctatgaa ctacaaacat 480
130 ggggacccca ttcccaagat tgaattcacg gaagaagaga ttaagacctg ggggaccatc 540
131 ttccgagagc taaacaaact ctaccgcacc cagcctgca gggagtacct cagaaacctc 600
132 cctttgctct caaaatactg tggtatcgg gaagacaaca tcccgcact ggaggatgtc 660
133 tccaactttt taaaagaacg cactgggttt tccatccgtc ctgtggctgg ttacctctca 720
134 ccgagagatt ttctgtcggg gttagccttt cgagtctttc actgcactca gtatgtgaga 780
135 ccaggttcag atccctcta cactccagag ccagacacct gccatgaact cctaggccac 840
136 gttcctctct tggctgaacc cagttttgct caattctccc aagaaattgg cctggcttcc 900
137 cttggagctt cagaggagac agttcaaaaa ctggcaacgt gctacttttt cactgtggag 960
138 tttgggctgt gcaacaaga tggacagctg agagtctttg gggccggctt gctttcttcc 1020
139 atcagtgaac tcaaacatgc actttctgga catgccaaag tcaagccctt tgatcccaag 1080
140 attgctgtga aacaggaatg tctcatcag agcttccagg atgtctactt tgtatctgag 1140
141 agctttgaag atgcaaagga gaagatgaga gaatttgcca agaccgtgaa gcgcccgttt 1200
142 ggactgaagt acaaccgta cacacagagt gttcaggttc tcagagacac caagagcata 1260
143 actagtcca tgaatgagtt gcggtatgac cttgatgtca tcagtgatgc cctcgctagg 1320
144 gtcaccaggt ggcccagtg gtga                                     1344
146 <210> SEQ ID NO: 6
147 <211> LENGTH: 447
148 <212> TYPE: PRT
149 <213> ORGANISM: Mus Musculus
151 <400> SEQUENCE: 6
152 Met Ile Glu Asp Asn Lys Glu Asn Lys Asp His Ser Ser
153 1 5 10 15
154 Glu Arg Gly Arg Val Thr Leu Ile Phe Ser Leu Glu Asn Glu Val Gly
155 20 25 30
156 Gly Leu Ile Lys Val Leu Lys Ile Phe Gln Glu Asn His Val Ser Leu
157 35 40 45
158 Leu His Ile Glu Ser Arg Lys Ser Lys Gln Arg Asn Ser Glu Phe Glu
159 50 55 60
160 Ile Phe Val Asp Cys Asp Ile Ser Arg Glu Gln Leu Asn Asp Ile Phe
161 65 70 75 80
162 Pro Leu Leu Lys Ser His Ala Thr Val Leu Ser Val Asp Ser Pro Asp
163 85 90 95
164 Gln Leu Thr Ala Lys Glu Asp Val Met Glu Thr Val Pro Trp Phe Pro
165 100 105 110
166 Lys Lys Ile Ser Asp Leu Asp Phe Cys Ala Asn Arg Val Leu Leu Tyr
167 115 120 125

```

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/528,309A

TIME: 14:13:50

Input Set : A:\SEQLIST 21226Y 08-24-05.TXT

Output Set: N:\CRF4\05042006\J528309A.raw

```

168 Gly Ser Glu Leu Asp Ala Asp His Pro Gly Phe Lys Asp Asn Val Tyr
169      130                      135                      140
170 Arg Arg Arg Arg Lys Tyr Phe Ala Glu Leu Ala Met Asn Tyr Lys His
171 145                      150                      155                      160
172 Gly Asp Pro Ile Pro Lys Ile Glu Phe Thr Glu Glu Glu Ile Lys Thr
173                      165                      170                      175
174 Trp Gly Thr Ile Phe Arg Glu Leu Asn Lys Leu Tyr Pro Thr His Ala
175                      180                      185                      190
176 Cys Arg Glu Tyr Leu Arg Asn Leu Pro Leu Leu Ser Lys Tyr Cys Gly
177                      195                      200                      205
178 Tyr Arg Glu Asp Asn Ile Pro Gln Leu Glu Asp Val Ser Asn Phe Leu
179      210                      215                      220
180 Lys Glu Arg Thr Gly Phe Ser Ile Arg Pro Val Ala Gly Tyr Leu Ser
181 225                      230                      235                      240
182 Pro Arg Asp Phe Leu Ser Gly Leu Ala Phe Arg Val Phe His Cys Thr
183                      245                      250                      255
184 Gln Tyr Val Arg His Ser Ser Asp Pro Leu Tyr Thr Pro Glu Pro Asp
185                      260                      265                      270
186 Thr Cys His Glu Leu Leu Gly His Val Pro Leu Leu Ala Glu Pro Ser
187                      275                      280                      285
188 Phe Ala Gln Phe Ser Gln Glu Ile Gly Leu Ala Ser Leu Gly Ala Ser
189      290                      295                      300
190 Glu Glu Thr Val Gln Lys Leu Ala Thr Cys Tyr Phe Phe Thr Val Glu
191 305                      310                      315                      320
192 Phe Gly Leu Cys Lys Gln Asp Gly Gln Leu Arg Val Phe Gly Ala Gly
193                      325                      330                      335
194 Leu Leu Ser Ser Ile Ser Glu Leu Lys His Ala Leu Ser Gly His Ala
195                      340                      345                      350
196 Lys Val Lys Pro Phe Asp Pro Lys Ile Ala Cys Lys Gln Glu Cys Leu
197                      355                      360                      365
198 Ile Thr Ser Phe Gln Asp Val Tyr Phe Val Ser Glu Ser Phe Glu Asp
199      370                      375                      380
200 Ala Lys Glu Lys Met Arg Glu Phe Ala Lys Thr Val Lys Arg Pro Phe
201 385                      390                      395                      400
202 Gly Leu Lys Tyr Asn Pro Tyr Thr Gln Ser Val Gln Val Leu Arg Asp
203                      405                      410                      415
204 Thr Lys Ser Ile Thr Ser Ala Met Asn Glu Leu Arg Tyr Asp Leu Asp
205                      420                      425                      430
206 Val Ile Ser Asp Ala Leu Ala Arg Val Thr Arg Trp Pro Ser Val
207      435                      440                      445
210 <210> SEQ ID NO: 7
211 <211> LENGTH: 24
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Primer, MTPH-874F
218 <400> SEQUENCE: 7
219 cacagttcag atccccctcta cact
221 <210> SEQ ID NO: 8

```

24

RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/528,309A

TIME: 14:13:50

Input Set : A:\SEQLIST 21226Y 08-24-05.TXT

Output Set: N:\CRF4\05042006\J528309A.raw

222 <211> LENGTH: 27
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Primer, MTPH-962R
229 <400> SEQUENCE: 8
230 aggagttcat ggcaggtgtc tggctct
232 <210> SEQ ID NO: 9
233 <211> LENGTH: 27
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: gcaaaactgg gttcagccaa
239 20
241 <400> SEQUENCE: 9
242 aggagttcat ggcaggtgtc tggctct

need explanation (see item 11 on Error summary sheet)
? what is this?

27

VERIFICATION SUMMARY

DATE: 05/04/2006

PATENT APPLICATION: US/10/528,309A

TIME: 14:13:51

Input Set : A:\SEQLIST 21226Y 08-24-05.TXT

Output Set: N:\CRF4\05042006\J528309A.raw